

SDMS DocID

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**ORIGINAL**  
Environmental  
Resources  
Management

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11 August 2006

Reference: 0025137

Sent by Email (Fitzsimmons.Charlie@epamail.epa.gov)

Mr. Charles E. Fitzsimmons  
United States Environmental Protection Agency  
Region III  
On-Scene Coordinator  
701 Mapes Road  
Ft. Mead, Maryland 20755-5350



Re: Laboratory Analytical Results for Soil Samples of Excavated Soil at the  
Elkton Firehole, Herron Park in Elkton, Maryland.

Dear Mr. Fitzsimmons:

At the request of Mr. David Meiskin, Environmental Resources Management, Inc. (ERM) has prepared this letter to share with the United States Environmental Protection Agency (USEPA) the results of the recent soil samples collected by ERM on 11 July 2006 from the stockpiles at the Firehole. A description of the sample methods and results is presented below.

#### Methods

The USEPA escorted ERM during the field work, and collected the soil from locations identified by ERM. The samples were collected to provide results representative of the soil piles. The work was performed in accordance with USEPA's Health and Safety Plan for the project.

The soil samples were collected from the two large soil piles, labeled East and West in Figure 1, that were generated by the USEPA from work at the Firehole (Unit 2). The soils were screened in the field with an organic vapor analyzer (OVA) for the presence of volatile organic vapors. USEPA collected the samples using plastic spoons. All non-dedicated equipment was decontaminated using a non-phosphate detergent wash with a distilled water rinse. The samples were placed in clean, laboratory supplied bottleware and placed on ice.

A total of twenty grab soil samples were collected, which consisted of five samples from each side of the soil piles. The approximate locations of the individual grab samples are presented in Figure 1.

Each grab sample was analyzed for asbestos. Four grab samples (two from each side of each pile) were submitted for analysis of Target Compound List (TCL)

VOCs and Tentatively Identified Compounds (TCL) VOCs. Since the OVA results were non-detect (i.e., total organic vapors were not detected above ambient conditions), the selection of the samples for VOC analyses were based solely on visual observation that the sampled areas were representative of the soil piles.

In addition to the asbestos and VOC samples, an aliquot from each remaining sample was placed in dedicated stainless steel bowls to create a composite sample from each side of the piles. The compositing resulted in two composite samples consisting of five grab samples from each side of the piles. In addition, one composite sample of slag material was also collected. The composite samples were submitted for analyses of polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), nitroaromatics, perchlorate, and Priority Pollutant List metals (PPL) metals.

AMA Analytical Services, Inc. performed the asbestos analyses. Phase Separation Science, Inc (PSSI) analyzed the samples for PAHs, PCBs, and PPL metals. Analytical Laboratory Services, Inc. performed the analyses for nitroaromatics and perchlorate under subcontract to PSSI.

### Results

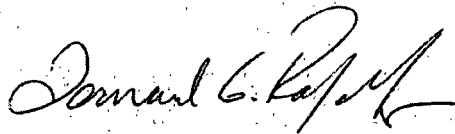
As shown in Table 1, asbestos was not detected in any of the soil samples. The laboratory reports for asbestos are attached. Table 2 presents the remaining analytical results.

Mr. C. Fitzsimmons  
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Please call me at 410-266-0006 to discuss our findings.

Sincerely,

A handwritten signature in cursive script, appearing to read "Leonard G. Rafalko". The signature is fluid and stylized, with a large initial 'L' and a trailing flourish.

Leonard Rafalko  
*Principal in Charge*

enclosures

cc: David Meiskin, Jim Witkin, File